

What is claimed is:

1. A pneumatic harvester, comprising:
  - a. collection chamber;
  - b. positive air pressure source that communicates with said collection chamber, wherein said positive air pressure source provides air to said collection chamber at a pressure that is in excess of ambient air pressure;
  - c. vacuum source that communicates with said collection chamber, wherein said vacuum source provides vacuum to said collection chamber at a pressure that is lower than ambient pressure, and removes air from said collection chamber.
2. A pneumatic harvester as described in Claim 1, wherein said collection chamber has a front opening, a rear opening, a bottom opening, and an open central section that is between said front opening and said rear opening, and above said bottom opening, wherein a plant having a material to be harvested enters said front opening, passes through said central opening, and exits said rear opening.
3. A pneumatic harvester as described in Claim 2, wherein said front opening comprises a front flexible member having a gap therein and said rear opening comprises a rear flexible member having a gap therein.

4. A pneumatic harvester as described in Claim 1, wherein said collection chamber comprises at least one collection port having an opening within at least one wall of said collection chamber, wherein said opening of said collection port is of sufficient size to receive therein said material from said plant, and wherein said collection port communicates with said vacuum source.
5. A pneumatic harvester as described in Claim 4, wherein said collection chamber comprises a plurality of vacuum orifices that are present in said at least one wall of said collection chamber, wherein said plurality of vacuum orifices communicate with said vacuum source, and wherein said plurality of vacuum orifices are smaller than said opening of said collection port.
6. A pneumatic harvester as described in Claim 1, wherein said central portion of said collection chamber has a receiving area that is adjacent to said opening of said collection chamber, wherein said receiving area tapers to a neck that is positioned behind said receiving area and within said central portion of said collection chamber.
7. A pneumatic harvester as described in Claim 4, wherein said central portion of said collection chamber has a receiving area that is adjacent to

said opening of said collection chamber, wherein said receiving area tapers to a neck that is positioned behind said receiving area and within said central portion of said collection chamber.

8. A pneumatic harvester as described in Claim 7, wherein said at least one collection port is located behind said receiving area of said collection chamber.
9. A pneumatic harvester as described in Claim 1, wherein an air pressure within said collection chamber is higher than atmospheric pressure.
10. A pneumatic harvester as described in Claim 1, wherein an air pressure within said collection chamber is lower than atmospheric pressure.
11. A pneumatic harvester as described in Claim 1, wherein an air pressure within said collection chamber is substantially equal to atmospheric pressure.
12. A pneumatic harvester as described in Claim 2, wherein said bottom opening comprises a bottom flexible member having a gap therein
13. A method of picking a crop, comprising the steps of:

- a. providing positive air pressure within an area that is at least partially closed;
- b. providing negative air pressure with said area;
- c. introducing a plant having a crop to be harvested thereon into said area;
- d. exposing said crop to said positive air pressure and said negative air pressure;

wherein said crop is severed from a remainder of said plant by a flow of air within said area.